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CENTRAL INTELLIGENCE AGENCY

25XREPORT

## INFORMATION REPORT

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**CONFIDENTIAL**

COUNTRY Germany (Russian Zone)

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SUBJECT Developmental Work, Production of  
Diamond Dies at Zeiss, Jena

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At a meeting of operations managers held in July, Dr. SCHRADER, Chief manager of the Zeiss Works and the VVB Precision Mechanics and Optics, read a letter from DKN to the effect that any publication of production and other figures is strictly forbidden. All data concerning production values, turnovers, etc., is confidential and must be considered as "top secret".

Otto SCHIEK, former communist deputy and until then district president (Landrat) of EISENACH, was appointed by Mr. SELEMANN so-called social and cultural director with the Zeiss Works.

2. The following is a survey of the developmental work to be finished in 1949/1950 along with the allocations (sums granted) for this purpose prescribed for the Zeiss firm by the Soviets:

Instruments	DM (East)
Ultra high frequency set	140,000
Infrared spectrophotometer	50,000
Crystal production by melting and dissolving processes	45,000
Development of polarization filters	15,000
Development of a microfilm reading device	25,000
Striae measuring apparatus, after Toepler, for technical and scientific work	10,000
Standard of measurement comparison device for divided glass scales	30,000
Development of reflection-reducing layers for spectacle glasses (lens coating)	10,000
Stereo-mount for cameras and projectors	3,000
Testing new varnishes	30,000
Electronic microscope	150,000
"Richtreihe" (directional series) microscope	30,000
X-ray (Roentgen) photography	40,000
2 m (78.7 in.) mirror telescope	1,800,000
Interference microscope	20,000
Photogrammetric instruments and the required evaluation devices	60,000
Electrophorus instruments	30,000
Ultra-centrifuges	100,000

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3. a. [redacted] the previously and repeatedly mentioned A 1 gears will be assembled in the manufacturing shops of the Zeiss firm in SAALFELD (M 51/J 53). Their delivery will be terminated in the near future.

b. It is planned that only a small part of the components of the A 1 gear, which was also mentioned in previous reports, will be manufactured in the Zeiss plant proper, the major part to be produced by small firms in the Thuringian Forest. These components will be assembled in SAALFELD. Due to the high demands of the Soviets it was not possible to solve the problem of the appropriate optical outfit of the A 1 gears. On 27 July 1949, Zeiss JENA had finished the "Biotar 1:1.4-2.5 cm"

the optical equipment of the A 1 gear will definitely be decided after the Biotar has been tested. As a result of the obscure situation regarding the optical power, the firm was not even able to prepare the precise constructional basic elements, despite the fact that the delivery dates fixed for this year must be observed. In this connection it must be noted that potentiometers for the A 1 gear are required from the firms of SELB (M 51/P 18) and NUREMBERG (M 50/O 40) and a representative of the Zeiss firm had to visit these places in the second half of July. The instrument was intended partly for projectors, partly for cinematographic purposes.

4. In the second half of July 1949 the production of drawing diamond dies had come to a standstill due to the stoppage of the supply of raw diamonds. As early as June 1949 an increasing number of workers had been sent on leave.

25X1 a. The previously mentioned trade agreement [redacted]  
25X1 [redacted] could not be concluded. It is a remarkable fact that the unlimited power of concluding diamond transactions that the Zeiss firm was formerly granted, has been withdrawn. Contracts and purchases are again liable to approval by DKW and SMA, according to recent orders.

b. In spite of the bad situation on the supply market the following orders, to be expected in the near future, have been given to the Zeiss firm by SMA:

25,000 diamonds dies for MOSCOW  
15,000 diamonds dies for SAG-Plants HETTSTADT  
(M 52/D 64) and Vogel BERLIN (M 53/Z 75)  
2,500 diamonds dies for a BERLIN incandescent lamp plant.

Until further notice, 1,000 diamonds dies for exportation

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c. In case of a sufficient supply of raw diamonds the firm would be able to reach an initial capacity of 4,000 diamonds dies per month on the basis of this order. The manufacturing time with 20  $\mu$  to 100  $\mu$  per stone is now 18 hours.

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5. The following delivery contracts will now become effective and have already been approved by SMA KARLSHORST and DKW:

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25X1  Comment:

Dr. SCHRADER was originally in charge of only the section "Optics" with the Zeiss Firm, JENA. As stated in this report, he is chief manager of the Zeiss works and simultaneously

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head of the Vereinigung der zonalen volkseigenen Betriebe "Optik" (VVE) (Union of zonal nationalized plants "Optics"). The main office of this VVE-2 for precision and optical instruments has its headquarters in JENA, at 1 Forstweg, and controls a total of 19 plants of the optical and precision instrument industry.

The instruments mentioned under item 3 are training instruments for target approaching exercises, instrument A 1, and a radar training gear L 1 for the location of aircraft. Both instruments have been dealt with in detail in two previous reports.

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